# HRUSHIKESH VASISTA

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## SUMMARY

- 4.5 years of experience in software design and development
- Thorough understanding of industry standard methodologies like Software Development Life Cycle (SDLC), V-Model, Iterative Development Methodology
- Hands-on experience in requirement analysis, low level design, software integration, simulation and hardware testing
- Excellent experience in resolving customer queries
- Languages : German (A2 proficiency)

## TECHNICAL SKILLS

| | |
|---|---|
| Programming languages | C, C++, Java |
| Scripting languages and others | Perl, OAW, HTML, CSS |
| Tools | Eclipse, Android Studio, Git, NetBeans, Tomcat, MySQL Workbench, EBTresos, EBGuide, CANoe, DOORS, ClearQuest, EASEE-BASD |
| Automotive | AUTOSAR (3.1, 4.0), CAN |
| Operating System | Windows, Ubuntu, Android |

## EDUCATION

**Illinois Institute of Technology, Chicago, IL** **Aug 2015 - Till date**

*Master of Science, Computer Science*

**Relevant coursework**: Algorithms, Data structures, Android application development, Enterprise Web application, Design Patterns, Computer Networks, Project Management

**Visvesvaraya Technological University, Belagavi, India** **Aug 2007 - Jun 2011**

*Bachelor of Engineering, Electronics and Communication*

## ACADEMIC PROJECTS

**GoShop -** *Android based application* **May 2016**

- Project objective: To develop an app like Instacart by incorporating all the required features for a grocery delivery app - Sign-up/ Sign-in, product categories, multi-language support, cart, payment gateway (PayPal) and order history. All the data was accessed and maintained as a database on AWS (RDS).
- Incorporated Facebook, Google login
- Led the team to collaborate on Git and performed software integration
- Designed and implemented UIs of user registration, cart, order history pages
- Implemented multi-language support feature (English and German)
- Project link: https://github.com/HrushikeshVasista/GoShop

**Tools/ Utilities:** Android Studio, MySQL Server, Git, Java keyool utility (to generate public, private keys), OAuth 2.0

**Skills:** Java, SQL

**Simulation of link-state routing** - *Java based application* **Nov 2015**

- Project objective: Develop a GUI based application to find all paths with lowest cost between 2 given nodes for a given network, specified as a matrix. Also compute and display the routing table for each node in the network.
- Implemented the Dijkstra's algorithm
- Created the test plan and performed validation of the project
- Project link: https://github.com/HrushikeshVasista/LinkStateRouting

**Tools/ Utilities:** Eclipse, NetBeans, Dijkstra's algorithm

**Skills:** Java

## PROFESSIONAL EXPERIENCE

*Staff Software Engineer,* **Visteon Technical and Services Center, Pune, India** **Jun 2014 - Dec 2015**

**Client: Mitsubishi Motors, Japan**

- Modeled the HMI software for Heads-Up Display (HUD)
- Developed application software to display information of Adaptive Cruise Control, Warning, Turn-by-turn navigation, vehicle speed etc from CAN signals onto the HMI
- Performed testing of the integrated software for HMI operations

**Tools/ Utilities:** Eclipse, EBGuide, CANoe, EBTresos, Adobe Photoshop, Serena SBM

**Skills:** C, AUTOSAR

*Software Engineer,* **Robert Bosch Engg. and Business Solutions, Coimbatore, India** **Jul 2011 - May 2014**

- Module responsible for CanSM and CanIf
- Performed simulation and hardware testing to ensure proper operation of CAN-stack
- Complete implementation of CanSM and CanIf APIs as per AR4.0 specifications
- Developed OAW templates to generate modules' *_cfg.h and *_cfg.c files as per .arxml configuration
- Designed and implemented the AUTOSAR's post-build selectable, FD-CAN support and Partial Networking (PN) features in CanIf and CanSM
- Interacted with customer teams of different product lines and clarified their queries
- Provided training to new hires in the department

**Tools/ Utilities:** Eclipse, EcuWorx, CANoe, Git, DOORS, ClearQuest, EASEE-BASD, RADAR

**Skills:** AUTOSAR, CAN/FD-CAN, C, OAW, Perl, C++

## OTHER ACTIVITIES

- **Perl based tool for reliable merging of multiple CAN database files**
  Visteon and Technical Services Center, Pune, India Oct 2015

- **Perl based tool to automate the build-test sequence during unit-testing**
  Robert Bosch Engg. and Business Solutions Aug 2013 - Dec 2013

- **Perl regex based tool to analyze huge CANoe logs (1-2 GB) into spreadsheet format**
  Robert Bosch Engg. and Business Solutions, Bangalore, India Mar 2013 - Apr 2013

- **Hobby project - matrix.h - C++ library for matrix operations** Jun 2010 - Mar 2011
  Project link: https://github.com/HrushikeshVasista/Class_Matrix_H

## AWARDS

- **Spot Award** *for timely delivery of HMI software for all customer releases* (Visteon, Pune)
- **Special Achievement Award** *for quick resolution of critical customer queries* (Robert Bosch, Bangalore)